Dr. Babasaheb Ambedkar Open University
February – 2022

Course	**:**	**MSCCS**	**Subject Code**	**:**	**MSCCS- 202**
Subject Name	**:**	**Cloud Infrastructure and Services**	**Max Marks**	**:**	**30 (Passing Marks 12)**

Assignment-1

Section A

Answer the following questions in 800 words **(8x1=8)**

1. Explain various types of Cloud.

Section B

Answer the following questions in 400 words (Any two) **(4x2=8)**

1. Explain Infrastructure as a Service (IaaS) model in detail.
2. Explain conceptual architecture of DBaaS.
3. Explain the characteristics of cloud computing.
4. Explain various services offered by PaaS model.

Section C

Answer the following questions in 300 words (Any three) **(3x3=9)**

1. Discuss in detail, various other desirable features of cloud computing.
2. Explain various use of cloud computing.
3. Explain limitations of SaaS model.
4. Explain virtualization and cloud computing.
5. Explain layers of cloud computing.

Section D

Do as Directed **(0.5x10=5)**

1. Define PaaS.
2. Which of the following is the most important area of concern in cloud computing?
   a) Security b) Storage c) Scalability d) All of the mentioned
3. Which of the following is one of the unique attributes of Cloud Computing?
   a) utility type of delivery b) elasticity c) low barrier to entry d) all of the mentioned
4. _____ is a pay-as-you-go model matches resources to need on an ongoing basis.
   a) Utility b) Elasticity c) Low barrier to entry d) All of the mentioned
5. **Point out the correct statement**.
   a) Service Level Agreements (SLAs) is small aspect of cloud computing
   b) Cloud computing does not have impact on software licensing
   c) Cloud computing presents new opportunities to users and developers
   d) All of the mentioned
6. Which of the following is owned by an organization selling cloud services?
   a) Public b) Private c) Community d) Hybrid
7. List any three service providers of IaaS.
8. Which of the following benefit is related to create resources that are pooled together in a system that supports multi-tenant usage?
   (a) On-demand self-service (b) Broad network access (c) Resource pooling (d) All of the mentioned
9. Define Grid Computing.
10. What is virtualization?

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Assignment-2

Section A

Answer the following questions in 800 words **(8x1=8)**

1. Explain various challenges associated with cloud data.

Section B

Answer the following questions in 400 words (Any two) **(4x2=8)**

1. Application Security in IaaS
2. Differentiate architecture of traditional and cloud based applications.
3. Explain different cloud computing risks and issues.
4. Explain SOA based cloud applications.

Section C

Answer the following questions in 300 words (Any three) **(3x3=9)**

1. Explain two main issues regarding the security of cloud applications.
2. Explain cloud application requirement in detail.
3. How can we protect PaaS platform.
4. Recommendations about cloud application
5. Explain lock-in related issues and mitigation steps.

Section D

Do as Directed **(0.5x10=5)**

1. Define SOA.
2. What is the use of multi-tenant environment in cloud computing?
3. Give full form of WSDL
4. What is DDoS attack?
5. List threats in cloud computing environment.
6. List two compliance issues faced by cloud service providers.
7. Name two main issues regarding the security of cloud applications.
8. What is function of HIDS (Host based Intrusion Detection System)?
9. Which organization provides tools and best practices over PaaS platform.
10. Give full form of OASIS.

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